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(54) Title: GENERALIZED LENSING ANGULAR SIMILARITY OPERATOR

(57) Abstract: In a machine for monitoring an instrumented process or for analyzing one or more signals, an empirical modeling module for modeling non-linearly and linearly correlated signal inputs using a non-linear angular similarity function with variable sensitivity across the range of a signal input. A different angle-based similarity function can be chosen for different inputs for improved sensitivity particular to the behavior of that input. Sections of interest within a range of a signal input can be lensed for particular sensitivity.